

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-033127

(43)Date of publication of application : 09.02.1999

(51)Int.Cl.

A61N 1/44

A61N 1/10

(21)Application number : 09-208521

(71)Applicant : SAKUMA KAZUO

(22)Date of filing : 17.07.1997

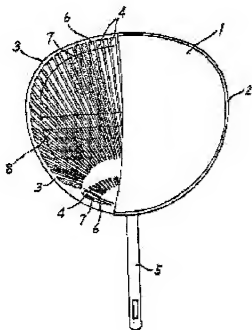
(72)Inventor : SAKUMA KAZUO

## (54) IMPLEMENT FOR VITALIZING ORGANIC FUNCTIONS

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To generate energy for vitalizing organic functions by attaching tourmaline to an implement.

**SOLUTION:** Powders or particles 7 of tourmaline are attached to a fan-type vitalizing implement which sends air by its own movement, or a contact-type vitalizing implement which is brought into contact with a human body and sends faint energy to the body. Using this implement, faint energy including minus ions is brought into direct contact with a human body or by means of air-blowing, so that cells, blood flow, or nerves will be vitalized and the organic functions will be improved.



\* NOTICES \*

JPO and INPIT are not responsible for any  
damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

## DETAILED DESCRIPTION

---

[Detailed Description of the Invention]

[0001]

[Field of the Invention]In this invention, it is related with living body activation appliance material.

Therefore, even if tourmaline is specifically used, and a living body is contacted or it does not contact, it is related with the living body activation appliance material for giving a living body weak energy and activating a living body's functions (for example, eyesight, brains power, muscular power, etc.) by air blasting or discharge by environment.

[0002]

[Background of the Invention]this invention person did patent application previously per [ "the air blasting instrument which brings about deodorization or a clever change using tourmaline, etc., and the manufacturing installation and method of a raw material for it" ] invention (September 6, Heisei 8 application). It also indicated this invention person in it that there is an operation which indicates deodorization UCHIWA which adhered the fine grain or thin textiles of tourmaline to the surface (Drawing 4 of the application) and to which this deodorization UCHIWA changes tastes, such as an acid taste, a saline taste and bitter taste, and strong sweet taste. Although this clever change operation was this invention person's new discovery and it was the new effect which was not foreseen before it, ignited by this, this invention person studied application of the tourmaline to still more nearly various directions, and acquired many results. The equipment it was made to make generate the weak energy which the point which should be noted especially makes tourmaline enclose or adhere to various tools and equipment, and contains an anion from there, For example, a grip (an example is explained in full detail behind) of UCHIWA containing tourmaline or the ball-point axis containing tourmaline, and the cane containing tourmaline etc. are having improved a living

body's function, for example, eyesight, brains power, muscular power, etc., and having found out your having made it activated. For example, if it looks at the face by UCHIWA of this invention entering tourmaline, even if continue nutriment good for especially an eye, and it is not taken in or it does not perform vision correction training etc. under special apparatus or a leader, improvement improvement of the eyesight can be carried out (it mentions later for details). Activation of brains power is made into the phenomenon which prevents or cancels sleepiness even if count ability and HIRAMEKI are raised and it does not depend on a drug etc. by looking at a head or the face by UCHIWA containing tourmaline of this invention, By activation of muscular power looking at the body by UCHIWA containing tourmaline, or contacting the body to the tools containing tourmaline, or equipment, it canceled numbness and feeling languid languid of the leg, \*\*\*\*\* was prevented, and it appeared as phenomena, such as carrying out strengthening improvement of the muscular power (all are mentioned later for details). The phenomenon of the improvement or improvement in a vital function by such tourmaline is the surprising fact which was not expected at all conventionally. It comes to form this invention based on these facts.

[0003]

[Problem(s) to be Solved by the Invention]Therefore, neither expensive apparatus nor troublesome training nor a special drug needs to be used for this invention, Let it be a technical problem to provide the living body activation appliance material use the various tools and equipment (it is hereafter named the equipment generically) which are seen by the person every day, and made tourmaline enclose or adhere to this, and it is made to improve or was made to raise various kinds of vital functions immediate effect-wise very easily and constantly.

[0004]

[Means for Solving the Problem]By this invention's using tourmaline as fine powder or a fine grain, and making it enclose or adhere to various kinds of everyday equipment (next, it explains in detail), Weak energy or living body activation energy which contains an anion from the equipment surface is generated, (1) Give a living body this energy by ventilating a living body with air, or -- giving a living body by contacting (2) equipment to a living body, or putting on point-blank range equal to contact as a matter of fact -- (3) -- by making this weak energy release in traffic environment of movable matter objects, such as a car, a living body is given and a vital function is activated. [ or ] Although micron level of tourmaline, for example, use 3-10 microns as about 6-micron fine powder suitably, is good in this invention, it is not limited to this and may generally use as a particle size of a mm unit depending on equipment. Details of other minerals etc. which can be mixed, such as a kind etc. of tourmaline to be used, are mentioned later (0014).

[0005]Although all living body activation appliance material made into an object of this invention is common in that fine powder or a fine grain of tourmaline was made to enclose or adhere, Equipment (below, it is named "air blasting activity equipment" generically) which divides roughly in respect of a living body activation operation, ventilates (1) living body, and is activated, (2) Equipment (below, it is named "contact activity equipment" generically) which contacts a living body, or makes it contact as a matter of fact, and is activated, (3) It is installed along with traffic environment of movable matter objects, such as a car, a train, a monorail, and a cable car, and is divided into environmental activity equipment which releases weak energy which contains an anion by a wind which a movable matter object causes in traffic environment, and performs living body activation. (1) There is various equipment, such as a shuttlecock of fans including most everyday UCHIWA as air blasting activity equipment and a fan, a shuttlecock of a blower fan, a guard net of a fan, a diffuser of a blower fan or a nozzle, and an air diffuser from an air conditioner (for [ , such as an object for buildings and an automatic motorcade vehicle ] vehicles). It is preferred for UCHIWA and a fan to constitute by enclosing tourmaline fine powder or a fine grain in the surface. Details of each part of composition are mentioned later. A fan and a blower fan (hair drier), It is good also as air blasting activity equipment to attach a piece of paper which could make tourmaline fine powder or a fine grain able to adhere to the shuttlecock directly (it adheres with paint or a bond), and could also make tourmaline adhere to a wall of the air diffuser, etc., and made tourmaline adhere to a diffuser further. A field which receives a wind by a mechanical apparatus or a natural wind, for example, an interior wall, glass surfaces (a building, a car, etc.), etc. can be used as air blasting activity equipment by making tourmaline fine powder or a fine grain concerning this invention adhere or enclose with the field. Tourmaline fine powder or a fine grain is made to adhere to a surface part of vehicles, such as a car and a train, for example, a bonnet outside surface of a car, Since living bodies, such as human being in the car, are activable by introducing into in the car a weak energy wind generated by a wind by run, an outside surface of vehicles can also be made into living body activation appliance material of this invention (see the example shown in the after-mentioned and drawing 10).

[0006]Next, although it is fundamentally common to a point (for example, a thing with a centrum is enclosed in it and punches the surface) which adheres or encloses tourmaline fine powder or a fine grain with the surface similarly as (2) contact activity equipment, As what will mainly (a) Concern and will touch with a grip or fingers with a hand or a finger if it divides for convenience by a use, for example, a ball-point, Various pens and pencils which have shanks, such as a mechanical pencil and a fountain pen, and a core for mechanical pencils, Printing / printing articles, such as ink for ball-points, and printing ink (tourmaline fine powder or a fine grain is mixed in a core or ink), (b) A wheel of a car (handlebars of a tractor or a motorbike are included), The shift (operation) lever, a handle grip part of a bicycle (including all, such as an

object for cyclings, business use, and an object for a game), Handrails, such as a ring of reins for horse riding, and a strap of a train or a bus, a handrail, a passage, stairs (for example, hospital etc.), A rotation ring, a control lever of a fork lift truck or an engineering-works construction heavy industrial machine which touch a usual state of a wheelchair by hand, a shovel and a hoe -- grip parts, such as a nippers strip artist, a binding, etc. for a grip of handle grip sections, such as handle grip sections, such as - snow removal implement and a sickle, a hammer, a pecker, a hammer, a saw, and cutting shears and ticket end scissors, electric wire cutting, or processing,. A grip part of a kitchen knife, hair clipper, and a razor and a portion of an edge, a grip hand of a mop or a cleaner, Tools equipment for work and service with a portion which a shutter which opens and closes the door handles, and grasps or touches by various kinds of hands, such as a part, (c) Handles, such as a bag and a suitcase, a shoulder or a \*\* belt of a shoulder bag or a golf bag, A grip hand of canes, such as a grip part of a microphone or a speaker, an old man, a blind person, a grip hand of a crutch, A one day article of a portion which grasps a grip of a handle of UCHIWA and a handle of an umbrella or a parasol etc. by a hand, or contacts the body, (d) Grips, such as bat golf club (putter, driver, etc.) gateball hockey appliance material of a grip of a racket of tennis ping-pong, and baseball, The stand surface of a pole and a pommel horse of the hanging ring, an iron bar, and a stick quantity jump for gymnastics, a dial of pachinko, a ball of pachinko, the top of chess or shogi, a go stone, othello, and mah-jongg -- there are various objects for movement with a portion which grasps or touches by a hand, such as a seal, dodge ball volleyball, a ball of baseball, a fishing rod, etc. which are stuck on a tile, a flower card, cards, and a palm (palm), or tools for play. There are electronic equipment and an office machine which has further portions which are always touching mainly with fingers, such as keys, such as a touch key of the (e) video game, a remote control controller of television or video, a personal computer, a word processor, English typing, as contact activity equipment which contacts a living body direct. (f) Besides a hand or a finger as contact activity equipment with a portion which mainly concerns and contacts the face and a head, hats, such as a frame, a vine, a nose stop, etc. of glasses, and a headband (a head strap.) It becomes contact activity equipment of this invention by a contact lens and the gum which touch the (g) eyeballs, such as a bandanna helmet, and a palpebra directly, a tongue, a prosthesis which is touching a cheek inner surface, implant, etc. making tourmaline fine powder or a fine grain adhere to the surface, or mixing them in a raw material. As contact activity equipment which has the surface which touches the (h) hand, an arm, a leg, other somata, and a living body cell (for example, organ transplanted), The surface of a meeting table, an office desk, or a table, \*\* crossbar of a leg provided between legs of these tables, A \*\* bar or a plate (foot rest) of a leg which is ahead of a chair of a train, An insole of shoes, the sandals surface, an armrest (armrest) and a backrest of a chair or a sofa, A supporter or a wristband (an object for movement, and for health all \*\*\*\*) which a head also

inserts in \*\*\*\* (headrest), the usual pillow and the surface of a cushion, a knee, an ankle, an elbow, a wrist, etc., Furthermore, the foot pedal surfaces, such as clutch accelerator brakes, such as a car, And a saddle of a bicycle or a motorbike also serves as living body activation appliance material which contacts a living body as tourmaline adhesion or an enclose part of this invention, A container which conveys liver, the kidney, the heart, etc. in the case of an organ transplantation can also be made into living body activation appliance material which adheres or encloses tourmaline fine powder or a fine grain with the inner surface, and activates a living body cell.

[0007]As the 3rd mode, i.e., (3) environmental activity equipment, On the other hand, the side of traffic routes, such as a road, a railroad, a monorail orbit, and a cable car orbit, to or both. There is equipment which furthermore established fields to which tourmaline fine powder or a fine grain was made to adhere in part at least, such as a wall surface provided along the upper part, for example, a panel, a fence, gauze, a guardrail, or a tunnel inner face. Tourmaline of these equipment surface releases weak energies, such as an anion, in traffic environment in response to a wind which a movable matter object runs a wind and causes. Living bodies, such as human being who is on movable matter objects, such as vehicles passing through inside of this environment, are activated in response to weak energy. Although it can be said also as air blasting activity equipment in a large meaning, by achieving improvement of air of traffic environment especially, this 3rd mode plans prevention from a dozing off while driving, and a crew member's healthy maintenance, and they are independently taken as the 3rd mode and it divides them from the ability to contribute to a traffic paint greatly.

[0008]Although a "living body" as used in the field of this invention points out a human body in many cases, this invention is not limited to this, and since it points out the body of animal vegetation with which it is [ other than human being ] valid, it also contains in the range a cell (living body cell) into which animals and plants are further alive. For example, when [ referring to the body of horse implements (saddle, not carrying out \*\* etc.) in contact with a (i) horse body, or a cow ] it pulls and an ingredient etc. adhere or enclose tourmaline fine powder or a fine grain with these tools, It can become the living body activation appliance material of this invention, and tourmaline can be adhered or enclosed with a wire box-manufacturing-like gauge, a birdcage and a cage for animal accommodation, an inner surface of a hut, etc. which put in and breed a hen, and it can be considered as living body activation appliance material. Although a cell of a live animal, for example, a raw egg, is behind explained further in full detail in relation to tourmaline UCHIWA as air blasting activity equipment, it is treating as a living body by this invention. In a mode as contact activity equipment, it can be considered as contact activity equipment by adhering or enclosing tourmaline fine powder or a fine grain with an inner surface of an egg preservation container, for example. Similarly, a cell into which vegetation is alive can also be activated with contact activity equipment or air blasting activity

equipment of this invention. \*\* [ for example, a rice-cleaning preservation machine (or bag) serves as contact activity equipment saved without deteriorating a valid cell called rice over a long period of time ] (the below-mentioned example) [0045]A germinating rate fall of a seed is deterred by applying tourmaline energy to a seed of a rice by reference and air blasting (the below-mentioned example). [0046]It is one mode of air blasting activity equipment. In this way, (1) air-blasting activity equipment enumerated un-restrictively [ illustration-wise / the above / this invention ], Extensive equipment which similarly results in (2) contact activity equipment, i.e., (i) from the above (a), and its imitation (with tourmaline), And environmental activity equipment installed in (3) traffic environment is widely included as living body activation appliance material, and the article, tools, and equipment except having indicated concretely here also belong to this invention within equivalent limits with the above.

[0009]Although an example also describes an activation operation or an effect by living body activation appliance material of this invention later, If a total theory is carried out here and it will look at a soma of a face, the head, and others several 100 times from several 10 times with air blasting equipment of this invention, (A). Eyesight may be improved, it comes to be visible, eyes, and a palpebra feels it refreshed. (B) Awake or prevent (C) sleepiness which brains are activated, and is lively, for example, raises count ability and HIRAMEKI, makes cerebral activity \*\*\*\*, and also becomes prevention and an improvement of a Japanese quince, even if it carries out long-distance operation of the car -- sleepiness -- \*\*\*\*\* -- that there are nothings and, . Become rather clear-headed, vital force energy is substantial, and pneuma is stabilized (for example, a small child fretting about also becomes quiet). (D) \*\*, such as strengthening stronger grip for muscular power [ whose improvement is possible ] which prevents feeling languid and tiredness of numbness of hand and foot, or the other whole body [ hand and foot and ], or is canceled in immediate effect, which makes muscles soft and corrects stiffness of stiffness in shoulder or legs and hips, which prevents tenovaginitis or, and raising saltation power, -- it is extremely various. These activation operations are similarly demonstrated not only with air blasting activity equipment but with contact activity equipment of this invention. For example, an effect an eyesight improvement effect and eyes of the above (A) are made PATCHIRI [ an effect ] with a contact lens containing tourmaline or glasses is acquired, With a hat or a head strap (headband) containing tourmaline, above-mentioned (B) brains activation, Prevention and dissolution of fatigue, strengthening of muscular power, fullness of energy, and which mental stable outstanding effect are attained by use of contact activity equipment of (h) from (a) which sleepiness prevention of (C) and brains activation were completed, and was described above. Fatigue of an animal can be made to be able to prevent and cancel by contactor material (i) for animals, and a fine good state can be held. these activation operations are natural -- each of air blasting activity equipment, contact activity equipment, or environmental activity equipment -- even when it is independent, it is obtained, but still bigger

effect can be achieved according to concomitant use of two persons or three persons.

[0010]Below, most everyday UCHIWA is concretely explained among air blasting activity equipment which is one mode of living body activation appliance material of this invention. Usually, UCHIWA comprises a handle and a bone of a large number which look and support a field, and it looks at paper or cloth to both sides of this bone, it sticks as a field, and ordinary UCHIWA is constituted. Between papers of these both sides, 3-10 microns of tourmalines more suitably used as about 6-micron fine powder are suitably enclosed with a crevice between a bone and a bone, and tourmaline UCHIWA is made from a good example of this invention. Enclosure means a thing which maintain breathability to the exterior to tourmaline fine powder or a fine grain (contact with humidity in the air is maintained) and to shut up like so that tourmaline fine powder or a fine grain may leak and it may not come out. Although it can look at tourmaline fine powder or a fine grain and it can also be made to adhere to an inner surface of a field with adhesives etc., it is also good to enclose with an inner surface of UCHIWA, and since contact with fine powder or a fine grain, and air becomes good rather in this gentleman, a good result is obtained. From the surface of such UCHIWA, weak energy containing an anion is always emitted in the air, by incorporating this energy into a living body, a living body's blood flow is promoted, work of a cell activates, and various vital functions are activated. If it looks by UCHIWA of this invention, this weak energy (living body activation energy) will be promptly sent in so much towards a living body, and it will act more effectively than a case where it is made to emit only in stillness. If the number of times (or air blasting time) at which it looks is fluctuated according to a grade of living body activation to expect, optimal activation effect will be attained promptly. As another mode of air blasting activity equipment, a fan or other blower fans, a fan, etc. are contained. In this invention, a fan containing tourmaline is intrinsically made like UCHIWA. That is, tourmaline fine powder or a fine grain is enclosed between bones between a table and hidden paper. However, in the case of a fan, since paper is creased between bones, it is good to paste up paper of a rear surface by this folding part, to divide between a bone and bones into two, and to enclose fine powder or a fine grain with each division.

[0011]As air blasting activity equipment of this inventions other than UCHIWA and a fan, there are a hair drier, a fan, an air-conditioner (air conditioner), etc. A portion from which a wind blows off in the case of these air blasting equipment, i.e., a nozzle of a hair drier, Attach a thin piece of paper which adhered or enclosed tourmaline fine powder or a fine grain with a guard net of a fan, and a diffuser of an air-conditioner one sheet or in the shape of an a large number streamer, or a piece of paper containing tourmaline is attached to tubed in a volume or other suitable forms, It is considered as living body activation appliance material which sends weak energy which tourmaline fine powder or a fine grain in a piece of paper contacted air (especially humidity in the air), and generated to a living body by air blasting. or it can carry out

like large \*\* (\*\*) which attaches such a piece of paper containing tourmaline to a suitable stick or a handle, and a Shinto priest uses in a shrine, and can also be considered as activation appliance material which shakes this and gives a living body weak energy. Direct tourmaline fine powder or a fine grain can be applied to a shuttlecock (fan of a fan or a dryer air-conditioner) of air blasting equipment with paint, adhesives, etc., and it can also be considered as air blasting activity equipment to which tourmaline was made to adhere directly at the shuttlecock itself. Similarly, fine powder or a fine grain of direct tourmaline is made to adhere to a wall of diffusers, such as an air-conditioner, or a grill (lattice), and it can also be considered as air blasting activity equipment. Air blasting activity equipment in which a big effect is actually expected from upper utility side has movable matter objects, such as vehicles which established a field to which tourmaline fine powder or a fine grain was made to adhere, for example in a bonnet outside surface of a car, etc. If a movable matter object runs in the air, since weak energy will be generated in respect of tourmaline, if this is led to in the car by a suitable means of the - \*\* style of the \*\* style and a living body is given, a big activation effect is acquired and it contributes to traffic paints, such as prevention of a dozing off while driving, greatly. Even if it leads others and a windshield or side glasses which is the pipes etc. which connect with this and lead to in the car as a means of the \*\*\*\*-\*\* style to \*\*\*\*\* of a trapezoid or a sector provided downstream from a tourmaline side on a bonnet, energy can be led to in the car.

[0012]Although there is the article [ variety extensively from (2) and (a) to (i) ] as contact activity equipment, It is common in all and tourmaline fine powder or a fine grain on the surface of the article for example. [ whether it applies directly and is made to adhere with adhesives, paint, lacquer, etc., and ] Or when it approves in construction material, it can be considered as living body activation appliance material by carrying out mixing (the open air and humidity can be contacted like) of tourmaline fine powder or the fine grain directly into construction material. A shank of pens and pencils, such as a grip part or a ball-point of a thing with a character Uenaka hollow part of an article, for example, a cane, (cane), can also be made into living body activation appliance material by punching the surface and enclosing tourmaline of a particle size which does not leak and come out from this punching in a centrum. Instead of applying to the surface directly, a tourmaline sheet which made tourmaline fine powder or a fine grain adhere to cloth, paper, a film, etc. can be made independently beforehand, this sheet can be stuck on the surface of an article, and it can be considered as living body activation appliance material.

[0013]If it explains among various contact activity equipment especially taking the case of some, [ make / all of the surfaces, such as stops of which he boasts, a frame, and hanging in the case of glasses, or / for example / tourmaline fine powder or a fine grain / adhere in part ] a time of wearing glasses -- the surface with these tourmalines -- the face (nose) or a head --

since tempora etc. are contacted and weak energy is given, a functional activation operation can be given to an eye, a nose, or muscles and a nerve around it. Since weak energy will be transmitted to the inside of the body through fingers which grasped pens and pencils if tourmaline fine powder or a fine grain is adhered or enclosed with a grip part of a penholder in the case of pens and pencils, such as a ball-point, an activation effect which does not produce tiredness to muscles of a finger or to which a shoulder is not absorbed in them even if it writes a thing for a long time is produced.

[0014] Generally, it is known that it is electrically polarized to a plus pole and the minus pole by itself even if tourmaline does not apply an electric field, and there is character which produces an electric charge notably by pyroelectricity nature, i.e., a temperature gradient. Tourmaline produced naturally has a thing of various colors, for example, there are various tourmalines, such as blue, light blue, white, green besides what is called schorlites (iron is included), such as black, dark brown, and blue black, and magnesite tourmaline (magnesium is included) which carried out brown, pink, a transparent color that became muddy, white, and colorlessness. There is also tourmaline compounded artificially and it can use equally by this invention regardless of nature and artificiality. Although a single color, for example, black tourmaline, can also be used for tourmaline in this invention, it can mix two colors or more and tourmaline of not only this but above various colors can also be used. For example, when tourmaline of black, green, or pink was mixed and used, it was accepted that an activation effect becomes high rather from a single color. Not only tourmaline but when it was suitably mixed about 10% 0.1 to 50% by weight, other minerals, for example, crystal, it was accepted that an activation effect becomes high. Generally, it can be measured by "O-ring test" that one of the activation effects by tourmaline fine powder or a fine grain of this invention, for example, muscular power of a finger, became strong. O ring test is the method of examining human body energy subject rounds off the thumb and the middle finger, build a ring of O, and a tester opens this ring by an index finger on either side, when an example is explained. For example, if a tester tries to open an O ring which becomes desperate [ subject ] and is putting power after looking at a finger of subject by ordinary UCHIWA and UCHIWA containing tourmaline 100 times, respectively, An effect of in ordinary UCHIWA ceasing to open for at least 10 seconds when it opens immediately and stripes look by tourmaline UCHIWA is accepted. If it looks in UCHIWA containing tourmaline fine powder of a mixed color 50 times, an O ring will cease to open, but if it looks in UCHIWA of tourmaline of a single color 65 times, open or an experimental result of being lost is obtained. Therefore, when calling it "fine powder or a fine grain of tourmaline" on these specifications, tourmaline fine powder or a fine grain of a single color and a mixed color is included widely, and also when it contains [ and ] as a mixed color, other minerals, for example, crystal, besides tourmaline, it includes. (see the example of the below-mentioned O ring test)

[0015]According to this invention, in order to raise an improvement effect by living body activation appliance material containing tourmaline, it is required in the air for moisture (humidity) to exist. As for relative humidity in the air, when according to this invention person's experiment looking with air blasting activity equipment, i.e., tourmaline UCHIWA, and activating a vital function, it is desirable for there to be at least about 40%. When humidity is lower than this, it is desirable to use an auxiliary means, such as to wet with water a face and other body portions at which it tries to look, or to get wet, and to hit a towel. If it looks by tourmaline UCHIWA after making the surroundings of an eye become wet with gauze etc. for example even if humidity is not low, it will be accepted that it is effective from dry \*\*\*\*\*. a palm to which a case of contact activity equipment, for example, a ball-point containing tourmaline, etc., also contacts equipment -- an activation effect is as large as a time of other somata having some moisture mind.

[0016]An activation operation of a vital function with UCHIWA containing tourmaline of this invention, a fan, or other air blasting activity equipment, By looking by UCHIWA, or making breeze by other equipment or methods, and hitting against bodily each part, for example, the head, a face, an eye, a hand, a finger, an arm, a leg, the sole, etc. directly or indirectly, As described above, improvement improvement of the (A) eyesight is carried out, an eye is felt refreshed, and wrinkles and sagging of eyes are taken, (B) Work of a brain is improved, make HIRAMEKI quick keenly, and heighten count ability, and prevent or improve a Japanese quince, (C) Sleepiness is taken or prevented, and the head is felt refreshed, make it clear-headed, carry out recovery fullness of the energy vital force, and make pneuma stability, (D) It takes numbness of a leg, and feeling languid of the whole body, and muscles are strengthened softly, and cancel nasal congestion, reduce a stertor, and appear as a prominent physiological-phenomenon effect of \*\*, such as preventing or canceling tenovaginitis. although it does not limit, a certain weak energy (probably -- electromagnetism ---like) which includes anion generating by tourmaline is given to a living body cell, a blood vessel, and a nerve, and especially a cause of making such an activation phenomenon causing promotes a blood flow, and is presumed to be what is depended on activating work of a nerve. It can save without a raw egg rotting also during 40 to the 60th at ordinary temperature by similarly putting a wind in tourmaline UCHIWA or a fan of this invention as an effect over a useful cell. By glasses, contact lens, a pen, in addition attaching tourmaline fine powder or a fine grain to extensive equipment as mentioned above variously, and contacting these equipment to a living body, or putting on point-blank range, weak energy is given to a living body and the above (A) thru/or an effect as shown in (D) are attained.

[0017]It lists below about the vital function at large [ concrete ] improved by living body activation appliance material including UCHIWA containing tourmaline of this invention besides above.

- (1) Even if a palpebra and having been pressed down, it may not stop, although it rubs and continued on several. Then, it looked by tourmaline UCHIWA 300 to 400 times, when about 5 minute had passed, it stopped, and it did not happen after that.
  - (2) If you travel between large foreign countries of time difference, a jet lag will happen. Then, if it looks by tourmaline UCHIWA 300 to 600 times, brains will become clear, the body will be in shape, and a jet lag will be repaired.
  - (3) To a chapped skin of a heel to which it comes from excessive cold sensitivity and excessive cold sensitivity which are interruptions in the circulation, it looks 300 times respectively every day, and if it carries out for three to 12 months, the above-mentioned condition will be improved.
  - (4) If it keeps on looking also at a color with a black face accompanying a fall of a body internal function about 300 times every day for three to 12 months, black decreases by improvement in circulation and an internal-organs function.
  - (5) If it looks at an abdomen and others by tourmaline UCHIWA or contact activity equipment is used regularly, constipation will be solved and an enterobacilli group will be activated.
  - (6) Since blood volume increases to similarly using tourmaline UCHIWA or contact activity equipment regularly more absolutely, a cancer patient's cachexia is improved and an improved effect of physical strength and energy is expected.
  - (7) Similarly by daily use of tourmaline UCHIWA or contact activity equipment, from blood volume increasing to a tip absolutely. Shift of a hippo NOANA bamboo extract (anti-HIV agent which this invention person extracted from a mushroom under development independently) with which a HIV patient was medicated is promoted, a patient's physical strength and energy are raised, and it is expected that the HIV recovery effect is heightened.
  - (8) By looking by tourmaline UCHIWA or using other contact activity equipment regularly. Since blood volume increases absolutely, reproduction of the skin of a person depressed in atopy can be aimed at, By raising an operation of SOD (superoxide dismutase = enzyme in the living body for preventing an obstacle caused by oxygen) and a SOD Mr. substance (substance in vegetation), a living body is protected from damage of active oxygen, energy is raised, and an improvement effect of atopy can be aimed at. A SOD Mr. substance is an active substance contained in a mushroom (hippo NOR NATAKE) which this invention person is developing independently here, If this is dissolved in various water with a specific ratio and it looks by tourmaline UCHIWA 50 to 300 times, it is proved that SOD Mr. activity (activity which suppresses work of active oxygen) goes up 12 to 25%. A place according [ this rise ] to tourmaline is size.
- As an effect of living body activation appliance material using tourmaline, (9) In addition, relaxation of an asthma or asthmatic condition, If weak energy with air blasting of this invention or contact activity equipment is given to circulatory disturbance, such as a brain and a

cardiovascular, liver cirrhosis, diabetes mellitus, neuroparalysis, a frozen shoulder, neuropathy, giddiness, etc., it will be improved remarkably (good [ to use together with chiropractic ] in addition). Hypertrophic arthritis is also the same. Also about crying of what is called a Japanese quince and depression, a psychosis, and a small child, if energy and the vital force are given to the body with living body activity equipment containing tourmaline (tourmaline UCHIWA, others), vitality is full, pneuma is stabilized and a condition improvement can be aimed at. an effect of the activation -- a breather, a digestive organ, a circulatory organ, other muscles, a nerve, and a skeleton -- it reaches generally.

(10) According to this invention, an effect of mental stability and an upsurge is also acquired. For example, when it looked at a palm or a face by tourmaline UCHIWA from several 10 times several 100 times to a person depressed in sadness, old sadness disappeared to him, a temper rose to him, and energy was recovered to him.

[0018]

[Example]Tourmaline UCHIWA is shown in drawing 1 as a fundamental and suitable example of air blasting activity equipment among the living body activation appliance material of this invention. The surface of UCHIWA looks, and the field 1 sticks paper, cloth, especially the YUPO paper (for example, Oji-Yuka Synthetic Paper) excellent in a water resisting property or intensity, and is formed. By drawing 1, in order that [ this ] it may look and the field 1 may show an inside, it has excised like the left abbreviation half. the rear face of UCHIWA comprises paper etc. similarly -- it looks and the field is stuck. 3 is a periphery bone which forms the outline of UCHIWA, this inside has many radiate bones 4, and the handle 5 reaches the lower end of the periphery bone 3. These bones 3 and 4 and the handle 5 are really suitably molded by a plastic. The crevice between the radiate bones 4 and 4 which become each other becomes the pocket 6 surrounded in bony thickness and the double-sided paper 1. After looking only at the rear face first and sticking a field on this pocket, the tourmaline fine powder (fine grain) 7 is put in. The tourmaline fine powder 7 is good to consider [ 3-10-micron ] it as the particle size of about 6 microns suitably. In the actual example of 1 manufacture, shape was a deformed circle like a graphic display, the maximum transverse diameter of UCHIWA is about 11.5 cm, the diameter medianus is about 10 cm, and 0.5-3 g of tourmaline fine powder [ about 2 g of ] 7 was suitably put into all the pockets of UCHIWA of this size with the total. The quantity of fine powder is good to consider it as the most efficient amount of distribution that is developed on the average to a field so that what powder overlaps and is buried in inside may decrease if possible. the pocket 6 -- after putting the tourmaline fine powder 7 into all, and the surface looks and sticking the field 1, UCHIWA which stuck the marginal seal 2 on the periphery of UCHIWA, and enclosed tourmaline with it is completed. It is good to stick previously the double faced adhesive tape 8 as shown in drawing 1 with a broken chain line on the bones 3 and 4 so that the surface stuck later may look, tourmaline fine powder may enter

between the field 1 and the bones 3 and 4 and adhesion may not be barred. Since the release paper (it is also called a separator) attaches the double faced adhesive tape 8 to one side, it is cut at the width 1 or a cross-shaped form to a round head as shown in drawing 1 with a broken chain line, attaching this upwards, and sticks an adhesion side on the bones 3 and 4.

Subsequently, after putting the tourmaline fine powder 7 into the pocket 6, a table looks at a release paper to peel-off and up to it, and the field 1 is stuck. In this way, although tourmaline fine powder "is enclosed" in UCHIWA, this means that powder does not leak and come out of UCHIWA, and contact with powder and air, i.e., breathability, is maintained.

[0019]The contour shape of UCHIWA is not restricted to what was shown in drawing 1. For example, arbitrary contour shape, such as polygons, such as a perfect circle, an ellipse, an ovoid, a triangle, a rectangular head, 5 angles, a hexagon head, unfairness in which polygonal combination and other outlines are carrying out the notch to it being circular, and an unsymmetric shape, is employable. It can also be considered as UCHIWA which is not folded although an outside is a sector, and the air blasting activity equipment of this invention can also be made as a form of an actually foldable fan. As mentioned above, for example, a rear surface looks with the fold between bones, in the case of a fan, a field is pasted up mutually, and it encloses tourmaline fine powder or a fine grain with each of the pocket made in this way. In this way, the formed tourmaline fan is intrinsically as equivalent as tourmaline UCHIWA on a function.

[0020]Although a specific size (11.5x10 cm) of the size of UCHIWA which was mentioned above is convenient as portable, it is not limited to this but can also be made [ a larger thing or ] smaller. Tourmaline UCHIWA of said specific size can be sent by mail as a picture postcard by sticking the paper showing a picture or a photograph, for example on the whole surface, and sticking the paper which expressed the address column and space for a message to the opposite side. the eyesight improvement mentioned later -- it acts as Mr. [ a calculation power improvement examination or / sleepiness ], and all experiments are conducted by tourmaline UCHIWA of this specific size. Since tourmaline UCHIWA (and tourmaline air blasting equipment of other this inventions) can demonstrate the effect of expectation so easily that air capacity is large, the size of a tourmaline enclosure portion may be [ UCHIWA ] good to look and to enlarge only area of a field without enlarging. For example, if tourmaline UCHIWA of the above-mentioned specific size is stuck on the field of ordinary as large UCHIWA as \*\*\*\* and it looks at it, an effect will be raised about 4 times. That is, the result of the O ring test same as for 1/4 as UCHIWA of a specific size was obtained in the number of times at which it looks by large UCHIWA.

[0021]The air blasting activity equipment by the tourmaline of this invention can also be carried out in a form as shown in drawing 2. 10 is an ordinary hair drier and the split 12 of a large number made with paper or cloth at the tip of the diffuser 11 of the point of the fan is attached

in the shape of a streamer. The tourmaline fine powder 13 is adhered or enclosed with each split 12. The case of adhesion makes optimum dose of powder 13 adhere to one side or both sides of the split 12 in adhesion etc. In enclosure, the split 12 is formed in saccate [ thin ], and it puts in and confines the tourmaline fine powder 13 in inside. When using it, the switch of the dryer 10 is carried out to one, and it turns to the portion of the body which blows off and needs cold blast or a \*\* (heat) wind from the diffuser 11. Since the operation asked for by hand is not needed unlike UCHIWA or a fan, effect of expectation can be achieved comfortably. Using the other same dryer and air blasting machine, tourmaline fine powder or a fine grain can be applied to the shuttlecock, wall, etc. with a heat resistance paint, adhesives, etc., and it can be considered as air blasting activity equipment. furthermore -- applying tourmaline, for example like the net made from stainless steel -- this net -- a diffuser -- much more -- or it can attach to a multilayer and can be considered as air blasting activity equipment. These methods are applicable also to the air diffuser for the building interior of a room or the automobile interior of a room.

[0022]The example of drawing 2 can be changed into the form using an ordinary fan (not shown) instead of the dryer 10 as an air blasting machine. In that case, the split 12 with tourmaline fine powder 13 as shown in drawing 2 at the front face of the guard net which has covered the fan can be attached in annular shape and other arrangement. If a fan is turned, the vital function activation wind which rustles the split 12 with tourmaline and happens will be equivalent to the required part of a human body in large quantities. A wind can be sent to an area larger than the case of the dryer 10 by using a fan. Small tourmaline UCHIWA as shown in drawing 1 may be connected and attached to the front face of several or a fan with a string, wire, etc. instead of the split 12 with tourmaline. Tourmaline can be applied to the guard net of a fan by a method given in the preceding paragraph, and it can also be considered as air blasting activity equipment.

[0023]The thought which attaches the split 12 with tourmaline fine powder as shown in drawing 2 to blowing parts, such as a dryer and a fan, can be developed in another form. for example, an air-conditioner, the air conditioning diffuser of the automobile interior of a room, a train, the air conditioning diffuser in an airplane, etc. -- the same -- a split with tourmaline -- the shape of a streamer -- or it can attach that it is also fixed and the vital function of human being who hits the wind can be activated. By attaching the split 12 with tourmaline to the blowing opening of a driver's seat in the shape of a streamer, and sending a wind towards human being especially, in the case of a car, Since a driver receives the wind of weak energies, such as an anion, continuously, even if it carries out long-distance operation like the example of an examination mentioned later, the head and an eye maintain the vital force \*\*\*\* state felt refreshed -- sleepiness -- \*\*\*\*\* -- things are lost and a safety operation can be secured (it relates to this point and is referring to the example of below-mentioned drawing 10). Instead of the streamer-

like split 12 containing tourmaline, although not illustrated, the paper containing tourmaline may be rolled in the shape of an rectangular pipe etc., and may be attached to the surroundings of an air diffuser fixed. The method which applies tourmaline to a wire gauze still as mentioned above is also employable here. Anyway, the tourmaline air blasting activity equipment of this invention can do the effect which prevents the health disturbance which can prevent the tiredness of a dozing off while driving or prolonged operation by the method of that it is easy and using regularly, and comes also to a fellow passenger from positive ion-ization of the air of the vehicle interior of a room, and can be comfortably passed within a healthy atmosphere.

[0024]The example of an examination of an eyesight improvement: It was examined whether the same small tourmaline UCHIWA as having been shown in drawing 1 would be used, and eyesight would be improved. The examination was done using the simple eye-test chart as shown in drawing 3. The figure which the bottom of the column of five rows below the eyesight 0.2 of this eye-test chart, i.e., (1) round head, lacks, (2) Using each column which starts with the number 9, (3) Roman alphabet B, (4) katakana NA, and (5) \*\*\*\*\* , four persons' subject stops at the position of a last-minute distance which removes glasses and is in sight with both eyes toward a simple eye-test chart, and the person of glasses is no processing (it looks by UCHIWA without tourmaline.). The number of times and width figure out the visual acuity value at the time of being the same as tourmaline UCHIWA. Then, everybody answered the character and figure which look by tourmaline UCHIWA focusing on an eye 300 times (it looks and is 1 time by about 50 cm in width, and round trip), stand on as same the position as the point, and see an eye-test chart and to which it points at random (with both eyes), and figured out the visual acuity value. A result is shown in the next table 1. It is the visual acuity value after asking for "no processing" by UCHICHIWA without tourmaline and asking for "processing" by UCHIWA containing tourmaline 300 times each.

[0025]

[Table 1]

Mr. O (man) Mr. K (woman) Mr. M (woman) Mr. T (man)

\*\*\*\* processing processing processing [ in which it does not process ] processing [ in which it does not process ] processing in which it does not process (1). 0.2 0.4 0.2 0.3 0.2. 0.6 0.3 0.5 (2) 0.5 0.6. 0.2 0.4 0.6 0.6 0.6. 0.7 (3) 0.4 0.6 0.3 0.3. 0.4 0.7 0.5 0.7 (4) 0.4. 0.5 0.2 0.3 0.2 0.4. 0.5 0.6(5) 0.3 130.4 (with \* improvement index.) 0.4 0.2 0.3 0.3 0.3 0.4 0.5  
average .36 .50 .18 .32 .34 .52 .46 .6 improvement index \* 138 177 152.9 It is an index of the visual acuity value improvement which set the unprocessed visual acuity value to 100.

The result of this examination shows that eyesight will improve 49.6% by the whole average [ before looking ] if it looks by tourmaline UCHIWA 300 times. This effect is maintained more by people for a long period of time for several hours. Although the person who returned looked

at the eye by ordinary UCHIWA 300 times, there was no effect of the improvement in eyesight.

[0026]The example of an examination of the improvement in calculation power: Calculation power was tested for three students of a tenth grade student. The test reports A and B of every 30 questions which mixed addition and subtraction are prepared. A table and B table are turn \*\*\*\*\* at random about the problem of addition of double figures, triple figures, and 4 figures, and subtraction, respectively. For example, a problem is 99. 122 2908 8929 8511 It writes like 122-44+169-1019+2919-7941+169, and it answers and the column is opened. Test time is made into 2 minutes and 30 seconds. Look at a face and the regio occipitalis capitis 300 times at about 50 cm in width by UCHIWA without tourmaline, and it is made to calculate, and an answer is made to fill in about the problem of A table first. Subsequently, similarly it looks at a face and the regio occipitalis capitis by a 50-cm width grade 300 times by tourmaline UCHIWA (it counts with 1 time both ways), and the problem of B table is made to solve promptly. The number of correct answers of A table and B table is counted after an end, and an improvement rate (%) is calculated. An improvement rate is computed by (A-B)/B. A result is shown in Table 2.

[0027]

[Table 2]

Number of student XYZA table correct answers 22 24 The number of 25B table correct answers 28 30 29 improvement rate % 27.3 2516 (improvement in an average of 22.5%)

According to the experience report of the subject, repeated the process as usual that do sums mentally by seeing the formula in question at the time of the examination (it looks by tourmaline-less UCHIWA) of A table, and it writes an answer, but. When B table after looking by tourmaline UCHIWA is started and an answer occurred that is, looks at a formula only by seeing the formula in question, I hear that sums were done mentally momentarily and the answer was taken out, and it is. It is said that mental arithmetic was made quickly to the extent that it went up to once by about five steps after looking at having always gone up stairs one step at a time by tourmaline UCHIWA as comment. After looking not only by the speed and accuracy of calculation but by tourmaline UCHIWA, the head feels it refreshed, and HIRAMEKI says that he had sensibility which became very quick.

[0028]Example of an experiment of sleepiness prevention: (long-distance operation)

Use type of a car The Toyota starlet experiment distance Nayoro -> Asahikawa (about 100 km of national highways), and a total (about 100 km of highways) <example [ of the experiment of daytime ]> \*\* processing division (tourmaline UCHIWA use): Look at a head and the face 30 cm, look by width 300 times, and leave. [ of about 200 km of Asahikawa -> Sapporo ] up to the destination -- under a 200-km drive and brains -- it is exciting, there is also no sleepiness and it went on. Animation overflows with an operation contents object. The whole distance of 200 km

was run in 4 hours. The body was exciting also at the time of alighting.

**\*\* an unprocessed division (ordinary UCHIWA use) :** look at a head and the face by being isomorphous and UCHIWA without tourmaline 300 times, and leave. When sleepiness was sensed from the backward one for 1 hour and 1 hour and 30 minute had passed from the start, it rested for 30 minutes in the service area of the highway. The body also feels languid. Arriving in destination Sapporo took 4 hours and 30 minutes. At the time of alighting, the head was sometimes sleepy and was considering it as MOYATSU.

<The example of an experiment at night> **\*\* processing division:** Operate the way back like the above from Sapporo to Nayoro (about 100 km from Sapporo to Asahikawa is a general road from a highway and Asahikawa to Nayoro). It looks up by tourmaline UCHIWA at the face and a head 300 times at the time of a start. Although it was night, when the handle grip was also easy, power also entered and the head also looked at the face about 100 times on the way shapely, eyesight also clarified. There is also no fatigue in the destination and it arrived at it in 4 hours.

**\*\* an unprocessed division :** although it looked by ordinary UCHIWA 300 times and ran, tiredness and sleepiness are sensed in the place which passed for 1 hour and 20 minutes, and take the rest for 50 minutes. Since eyes were used, on the way, although looked by ordinary UCHIWA 100 times, it has not been improved, but eyes got tired, and while the body felt languid and also \*\*\*\*(ed) sleepiness, it arrived. It took 5 hours. Sleepiness came also in the place and tourmaline UCHIWA processing division which had a meal a trip by the test similarly. Then, when looked about 200 times, sleepiness could be taken, and I was fine and it arrived at the destination. (A division is also a division at night daytime) an unprocessed division (ordinary UCHIWA and division which nothing carries out) -- time before a meal and after a meal -- it was ineffective, although I was sleepy and being looked by ordinary UCHIWA. That is, when looked by tourmaline UCHIWA, sleepiness could be taken, or it protected, activation of brains, eyesight, etc. took place, the tiredness of eyes or the body was reduced, and it became clear that the destination could be reached smoothly. When it became sleepy on the way and having been looked by 100 - 100 number tourmaline UCHIWA, sleepiness could be taken, and cheering up was experienced. When it looked by tourmaline UCHIWA, it was experienced that HIRAMEKI under operation also increases.

[0029]Dissolution of numbness: Three women were made to sit straight on a tatami for about 20 minutes, sitting straight was stopped in the place it became impossible to bear the numbness of a leg, and the leg was given up, and when time to solve numbness was timed, it took an average of about 5 minutes. Set between for a while, it was made to sit straight again, and sitting straight was stopped in the place it became impossible for numbness to bear, and when looked at the leg which gave up the leg and was numbed with tourmaline UCHIWA 150 times, numbness disappeared about in 1 minute. Although the same experiment as another

day was conducted by ordinary UCHIWA, dissolution of numbness took time about the same as the time of doing nothing. When looked by tourmaline UCHIWA, numbness is not only solved early, but the muscles of the sural region of a leg had the feeling which becomes soft. [0030]Dynamometer test: When looking at three men's grip by tourmaline UCHIWA, and when doing nothing (natural posture), it tested in comparison with ordinary UCHIWA and tourmaline UCHIWA.

An experiment tool and environment: - dynamometer TAKEI grip A time base range 0-100kgf Minimum unit 1kgf and tourmaline UCHIWA Tourmaline various mixture 1g built-in and room temperature 25 °C and humidity 50% and experimenter The experimental method and the consideration table 3 which are made to stand in the state where intense movement is not carried out, The case where it looks by a natural posture (nothing is done) and tourmaline UCHIWA about the males A and B is compared. A natural posture grasps a dynamometer as it is, and reads the numerical value which came out. A dynamometer is grasped, after setting between a little and a third party looks by about 30-cm width 50 times each in the 200 faces of A and B, and both the palms by tourmaline UCHIWA. Although a result is as being shown in Table 3, in tourmaline UCHIWA Ward, the increase in grip of 3kgf is seen for A and B in the three sum totals. It is increase of about 2%. Table 4 is isomorphous ordinary UCHIWA (with no tourmaline), and UCHIWA containing tourmaline, looks at the 200 faces and both 50 palms each similarly, and carries out grip comparison measurement. As a result, if it looks by tourmaline UCHIWA, it will be admitted that grip carried out the increase in 8kgf (about 7%) in the three sum totals. If 1kgf improvement is carried out [ reference ] for the numerical value of grip per 40 years-old generation boy, since it will be in charge at the numerical value which became young about 4 years old from the physical strength diagnostic test result of the Ministry of Education of a Hajime Heisei fiscal year, it can be said that the weak energy grant by tourmaline UCHIWA made 4-7 years-old youth regain about grip.

[0031]

[Table 3]

Natural posture Tourmaline UCHIWA \*\*\*\*\* male A (55 years old) male B (51 years old) male A male B44.5 kgf 53.0 kgf 46.0 kgf 55.0kgf 45.0 54.0 45.5 54.042.0 54.0 43.0. 55.0 total 131.5 161 134.5 It is an average of 43.8 1641 times. 53.0 44.8 54.6 indices 100 100 102.28 101.86

[0032]

[Table 4]

the male's C grip test -- 39.0 kgf 43.0 kgf 39.0 at which it looks by tourmaline UCHIWA at which it looks by ordinary UCHIWA 42.539.0 40.0 total 117.0 125.5 1 time -- an average of 39.0 (index 100) 41.7 (index 106.72)[0033]By looking at a palm or a face by tourmaline UCHIWA of this invention as mentioned above, muscular power is strengthened and the value of a dynamometer improves. As strengthening of the muscles of a leg, the vertical height of a

high jump became high by looking at a leg by tourmaline UCHIWA. Muscular instantaneous power becomes strong. It is accepted also from canceling, if it looks at nasal congestion by tourmaline UCHIWA, or IBIKI becoming light, if the severe person of IBIKI looks by tourmaline UCHIWA and goes to sleep that it is effective if it looks by tourmaline UCHIWA to muscles, a cell, or a blood flow.

[0034] Since various tourmalines and the potency of the mixture (a mixed color and mixing with other minerals) were measured by O ring test in relation to muscular power strengthening by looking by tourmaline UCHIWA of this invention, the result is shown in the following Table 5, 6, and 7. O ring test is a test to which the subject makes the ring of O from a finger (for example, oh! a finger and an inside finger), and a tester puts in and opens predetermined power using the index finger of right and left [ this ring ]. The muscular power of the finger of the subject becomes strong and a ring stops opening it in no processing (it does not look at the hand of the subject), if it looks at the palm of the subject by tourmaline UCHIWA of this invention although it will open immediately easily as the number of times of the ring of O at which it looks increases. Under the present circumstances, the subject makes an O ring from a right finger, and looks at a left palm by tourmaline UCHIWA. The number of times at which it looked by tourmaline UCHIWA is shown until an O ring stops opening the "number of times" in the following table, and it means that "potency" of that tourmaline UCHIWA is so strong that there is little this number of times. It looks at how to look at tourmaline UCHIWA by 30-cm width, and it counts one round trip with 1 time.

[0035]

[Table 5] potency raw material [ of the tourmaline of various colors ]: -- number-of-times of black green pink light-blue monochrome brown blue black brown blue color turbidity transparent color: -- 65 63 75 76 76 66 64 65 63 77 [Table 6] Potency (1) of a mixture Raw material: Number of times of 50% of 10% of mixture above-mentioned mixture + crystal above-mentioned mixture + crystal of each above-mentioned color: 50 45 90 [Table 7] Potency (2) (10% of crystal is mixed to the tourmaline of each color, respectively) of a mixture Raw material: Black green pink light-blue white swarthiness \*\*\*\* dark brown blue color turbidity transparenance 59 57 68 69 69 60 58 59 57 70 [0036] Durability of a fresh egg: Since the fresh egg was also a living body cell, the activation effect by tourmaline UCHIWA of this invention was examined about this. The fresh hen's egg was divided into every five-piece three groups (a, b, c), and mass reduction % was measured. Without a group doing anything, b group looks by tourmaline UCHIWA 40 times from a top, and c group looks the said 100 times, saves at the room temperature of about 24 °C (it falls in in the daytime and the night) (40 to 60% of humidity), and measures mass every day. The first mass was set to 100 and a, b, and c fell in 98% of mass in the 13th day. Since a was damaged on the 19th, data was not able to be taken after that. Although both b (looking 40 times) and c (looking 100 times) were gone down to

92.4% of mass in the 27th day, And it was the point and the 30th day, come out of 90.9% of b, 89.1% of c comes out of b, 90.68% and a difference began to come out of c in 91.7% and the 40th day, and although the contents of the egg of c did not move, when that of b shook, it moved. Although the contents of the egg are moving b by 84.8% on the 48th, even if it shakes c with 87.6% of mass, those [ most ] does not move to it. Although it ate that one contents moved for a while of c, it is normal clever. Rotten signs were not seen from an observation of appearance, either. b will fall in 83.3% of mass in the 59th day, to that to which egg contents are moving (putrefaction should start and write), c maintains 87.0% of mass and contents hardly move, either. In this way, when looking at the fresh egg by tourmaline UCHIWA of this invention 100 times, it became clear that it can hold living for about 60 days under ordinary temperature. Although it only looked at tourmaline UCHIWA at the beginning, further long-term living body preservation is attained by making tourmaline fine powder or a fine grain adhere to the wall of a preservation container, considering it as contact activity equipment, for example, it makes it always expose to the weak energy of tourmaline, and saving an egg in it.

[0037]Blood-pressure-measurement examination: A blood-pressure peak price and the minimum value with the time [ natural posture / the time of looking with the air blasting activity equipment (tourmaline UCHIWA) of this invention and / which nothing carries out ] of looking by ordinary UCHIWA were measured.

tourmaline fine-powder mixture 2g experiment tool and environmental experiment tool: -- OMRON automated sphygmomanometer HEM722C tourmaline UCHIWA: -- entering (ordinary UCHIWA is isomorphous -- nothing is contained but)

indoor environment: -- 50% of temperature 25 \*\* humidity experimenter: -- it is made to sit on a chair in the state where as intense movement as man and woman has not been carried out an experimental method and consideration -- the experimenter man and woman who wore light lounge wear clothes being sat on a chair, and naturally blood pressure first, [ measure and ] Subsequently, the third party looked at and did blood pressure measurement of 200 faces of an experimenter and both the 50 palms each (it looks and counts with 1 time by 30 cm in width, and round trip) by ordinary UCHIWA, similarly looked at 200 faces and both palms by tourmaline UCHIWA of this invention 50 times each further, and measured blood pressure. Each numerical value is shown in Table 8. Although the wind of ordinary UCHIWA contracted the width of the highest minimum also with man and woman compared with a natural posture, it was observed that the wind of tourmaline UCHIWA expands the width of a blood-pressure peak price and the minimum value about 6.5 to 10.5%.

[0038]

[Table 8]

the experimenter man-and-woman classification natural-posture common tourmaline natural-posture common tourmaline highest . the minimum The highest The minimum The highest The

minimum The highest The minimum . Highest Minimum Highest The 1st [ at least ] time 123 87. 115 95 119 95 144 83. 130 87 145 The 952nd time 128. 97 117 92 131 89 139. 94 136 84 145 The 863rd time . 124 91 121 85129 83. 135 83 132 84 147 88. Average 125 91.7 117.7 90.7. 126.3 89 139.3 86.6. 132.7 85 145.6 The 89.6 highest minimum difference 33.4 27 37.3 52.7 47.7 Difference \*\*6.4 with 56 natural posture +3.9 \*\*5 It looks at +3.3 notes: "common" by ordinary UCHIWA. It looks at "tourmaline" by tourmaline UCHIWA.[0039]As a reason for expansion of the above-mentioned highest minimum difference, the numerical value of the lowest blood pressure from the place which seldom changes with the winds of tourmaline UCHIWA, Since the pressure when the heart contracts and blood is extruded by the main artery from the left ventricle is highest blood pressure, and the heart committed tougher contraction movement etc. in response to the influence of the weak energy by tourmaline, it guesses. It is experienced that it is experienced by coinciding with this that DOKIDOKI stops and it has potentiation of the heart by tourmaline energy if the old age person to whom the heart throbs when stairs are gone up looks by tourmaline UCHIWA or puts the UCHIWA into the inner pocket of a breast. Like the heart, although that there are sleepiness and \*\*\*\*\* by tourmaline UCHIWA is the place explained previously, in order for tourmaline energy to make respiratory metabolism in a lung smooth and to circulate blood with high O<sub>2</sub> partial pressure all over the body, the tissue respiration in each organization activates, namely, a cell is activated. That is, it seems that sleepiness was able to be taken because the brain cell was also activated.

[0040]Next, with reference to drawing 4, an example is described about the mode of contact activity equipment among the living body activation appliance material of this invention. Although drawing 4 expresses glasses, it is made to adhere so that tourmaline fine powder or a fine grain (not shown by a diagram) may not be dropped out on the surface 21 of the nose stop 20 of these glasses. Tourmaline fine powder or a fine grain is good to make it adhere also to a side far also from the side near the eye of the surface 21. Tourmaline fine powder or a fine grain can be made to adhere also to the surface of the temples 22 and 23 of glasses. Although numerals are not attached by a diagram, tourmaline fine powder or a fine grain may be made to adhere also like the inside and outside of a lens frame. If you wear such glasses with tourmaline, weak energies, such as an anion which the tourmaline made to adhere to the nose stop 20, the vines 22 and 23, and a frame emits, will activate the muscles and temporal region an eye and around it, It can use also for prevention and an improvement of a Japanese quince by eyes' coming to look good, the head's being clear while preventing tiredness, and activating the blood flow within a brain. Although the time of looking at this activation energy by tourmaline UCHIWA is not necessarily given to a rapid large quantity, an activation operation is continuously given by having worn glasses for a long time and continuing receiving weak energy continuously.

[0041]Drawing 5 shows the embodiment of the contact activity equipment of further others. This is the mode which attached tourmaline fine powder to the contact lens, and the pupil equivalent part 31 of a contact lens considers it only as a lens material, and has mixed the tourmaline fine powder 33 in the annular part 32 of the circumference. The tourmaline can use the thing of suitable colors, such as black and red. Tourmaline is embedded at a lens material so that it may be considered as a fine particle size (for example, 1 micron or less) and may not drop out, so that it may change, so that an eyeball may not be damaged. Since a contact lens has breathability in the raw material itself to some extent, the tourmaline fine powder embedded into the raw material can come into contact with air enough, and can emit an anion and other weak energies. Thereby, since activation energy is given to the nerve and blood flow of eyes, while activating an eyeball, raising eyesight and preventing the fatigue of eyes, muscular sagging and wrinkles of a palpebra are eliminated, and it is effective in making eyes PATCHIRI.

[0042]Drawing 6 shows the mode of the tiredness prevention pens and pencils which attached tourmaline fine powder or a fine grain to pens and pencils as an example of further others of contact activity equipment. Although there is a ball-point, a mechanical pencil, a pencil, a brush, or a fountain pen, tourmaline fine powder or the fine grain 43 is made to adhere the portion 42 of those shanks 41 grasped mainly with fingers, and near it as pens and pencils. In this case, since it becomes a skid on the contrary, it does not matter even if tourmaline projects some on the surface of a shank. Work can be done comfortably, without neither a finger nor a hand getting tired even if it carries out a prolonged note, but a shoulder growing stiff, since the tourmaline 43 will touch with fingers continuously and will continue giving activation energy, if the motion written with pens and pencils is repeated. In relation to this, the tourmaline fine powder or the fine grain of this invention is mixable into the core of a mechanical pencil, the ink of a ball-point, printing ink, etc. Since a character or a figure taken [ notes of ] or printed on paper in these cores and ink contains tourmaline fine powder or a fine grain, it can receive activation energy by touching this with a finger etc. That is, ink and a lead work as contact activity equipment through printing, printing, or writing operation.

[0043]Although drawing 7 is similar with the ball-point of drawing 6, it shows the example of the contact activity implement (it can be said also as an air blasting activity implement in a sense) which enclosed the tourmaline fine grain in the hollow shaft 51. Many small holes 52 are drilled in the hollow shaft 51, the top cap 53 is opened and a range like the dotted line 54 is filled up with a tourmaline fine grain in proper quantity. Tourmaline is good to use the particle size of the grade which leaks and does not come out of the hole 52, for example, about 2-mm grain. A film which was described above, for example even if it did not pack GISSHIRI tourmaline in [ whole ] the centrum, The tourmaline sheet adhered or impregnated with the tourmaline fine grain is independently created on paper, cloth, etc., the field out of which the tourmaline of this

sheet has come is carried out outside, and it attaches to the inner surface of the hollow shaft 51, and tourmaline contacts the open air via the punching 52, and it may be made to emit weak energies, such as an anion. Although the example of drawing 7 assumes pens and pencils uniquely, If it is equipment which has a centrum like, such as a grip part of the contact activity equipment of not only this but others, for example, a cane, a grip (grip) of a golf club, and a fishing rod, Punching can be established in the surface by the same method as drawing 7, and a hollow interior can be loaded with a tourmaline fine grain, or a tourmaline sheet can be attached, and contact activity equipment can be created. Thus, since a living body is easy to be absorbed as the anion emitted from tourmaline appears in a living body's point-blank range through punching and touches as a matter of fact although the tourmaline with which the centrum was loaded is not touching a living body directly, weak energy is enough supplied to a living body.

[0044]It can create by making tourmaline fine powder or a fine grain adhere to the surface of the equipment with a paint, adhesives, etc. in contact activity appliance material without a centrum, for example, the table surface, the handle of inner substance, and that case. Instead of making tourmaline adhere directly also in this case, the above-mentioned tourmaline sheet is created and this can also be stuck on the equipment surface. If reference is made in the relation of a tourmaline sheet, when milling paper or a nonwoven fabric, tourmaline fine powder or a fine grain can be mixed intratemporally, and the paper or the nonwoven fabric containing tourmaline can be manufactured. In this case, although tourmaline fine powder or a fine grain in particular is not limited, it is preferred for it to sometimes make several 10 microns into the particle size of several 100 microns from several microns in practice. Or not instantaneous paper milling but the paper which finished milling paper previously, or a nonwoven fabric is filled with the liquid which melted tourmaline fine powder or a fine grain as post-processing, and it can adhere or impregnate with tourmaline fine powder or a fine grain. In this case, it pours and it is good for liquid to mix a binder (sizing agent) suitably. With such a tourmaline paper-milling sheet, aforementioned air blasting activity equipment or contact activity equipment can be manufactured.

[0045]Next, drawing 8 is a section side view showing an example of the rice-cleaning preservation machine as contact activity equipment concerning this invention. The rice-cleaning preservation machine 60 consists of the lid 61 and the package body 62, and as a dotted line shows to each inner surface, it adheres to tourmaline fine powder or the fine grain 63. By putting rice cleaning into such a preservation machine 60, the cell (it is still alive) of the rice which continues receiving the weak energy which tourmaline emits can continue holding the freshness and the taste at the time of rice cleaning for a long period of time, without producing deterioration and degradation. The same effect may be attained also by adhering or enclosing tourmaline fine powder or a fine grain with the inner surface of a rice bag (not

shown). The product made of paper or the product made from a plastic may be sufficient as a rice bag. In the example of the graphic display, the bottom of a container is used as the slant wall 65, and the opening and closing 66 is formed in the lower end. If it can be made to carry out by pushing the button (67 references of drawing 9) suitably provided in the outer wall automatic opening and closing electrically, since a fixed quantity of rice will be discharged automatically, the opening and closing 66 is convenient. Drawing 9 is a front view which \*\*\*\*s the example which incorporated such a tourmaline preservation machine 60 as some refrigerators. The refrigerator 70 shown with a broken chain line is good to build the U.S. preservation machine 60 into portions which are not cooled very much by the degree, such as the vegetable compartment (bottom), although a freezer compartment, cold storage, a vegetable compartment, etc. are arranged lengthwise. 67 is a manual operation button and good by pushing this to discharge a fixed quantity of rice. Instead of including in a refrigerator like drawing 9, preservation machine 60 itself can also be constituted as a cooler box. The thought of drawing 9 is applied and it may be made to store a preservation machine with tourmaline (it is slightly large-sized) to the stock freezer itself.

[0046]In relation to preservation of rice, before carrying out seeding of the seed of a rice, decline in a germinating rate can be deterred by exposing to the wind of the air blasting activity equipment of this invention. As air blasting activity equipment, although UCHIWA can also be used, in order to process a lot of seeds, it is good to attach and use tourmaline fine powder or a fine grain for a large-sized fan. When direct-planting cultivation is carried out, if a germinating rate is not good, restoration will be difficult and will cause the fall of a yield, but if tourmaline is used in order that especially the seed of a rice may avoid this, it can prevent a germinating rate fall. Concretely, although the seed of a rice is rounded off in the shape of [ of the ground ] a dumpling, and is put in, it drops to a rice field directly in direct planting and it scatters it, When tourmaline fine powder or a fine grain was mixed in this dumpling with the ground or other coating agents for seeding and having been scattered as massive, oxygen was supplied to the seed (valid cell), putrefaction and weakening of the seed were prevented, and it was admitted that a germinating rate could be raised. When the rice seed was planted directly by no processing, in direct planting which mixed tourmaline, the germinating rate of 98% of \*\*\*\* was actually able to be attained to only the germinating rate of the grade exceeding 80% being acquired. Thus, the various coating agents for seeding which mixed tourmaline several 10% from several percent can also be called contact activity equipment of this invention. Such a tourmaline mixing seeding method is applicable to seeds, such as a Japanese radish, a beat, a ginseng, and lettuce, besides the seed of a rice, and also may be applied to the cutting plane of tuberous plants, such as a potato, a yam, and a sweet potato, the cutting plane of Rui Hanaki who does a cuttage, etc. as tourmaline spreading.

[0047]Next, drawing 10 is a top view showing a car as one example of mobile activity

equipment into which the thought of the air blasting activity equipment mentioned above was developed. The passenger car 80 of a graphic display has the windshield 81, the rear glass 82, and the side glasses 83 of both sides. The tourmaline fine powder applied to this invention in part at least on the fine grain adhesion side 85 of the bonnet outside surface 84 of windshield anterior part is established. Tourmaline may stick the tourmaline sheet which could be directly applied to the bonnet surface with the paint, or was created beforehand. \*\*\*\*\* 86 is attached to the downstream about the flow of the air of the tourmaline side 85 at trapezoidal shape or fan shape. Although \*\*\*\*\* has illustrated two pieces, this may be summarized to one piece or a split shape may be carried out more than three pieces or it. The air conduit 87 linked to the origin of \*\*\*\*\* 86 is led to the automobile interior of a room, as a dotted line shows, and it leads to the indoor delivery 88. The delivery 88 can be used also [ blowing opening / usual / indoor ]. The tourmaline adhesion side 92 of this invention may be established also in the suitcase outside surface 91 of the automobile rear. Also in this case, \*\*\*\*\* 93 is formed in the downstream of a tourmaline side, and it leads to the indoor diffuser 95 via the air conduit 94. In this way, if a car slices through a wind and runs, the weak energy which contains an anion from the tourmaline adhesion side 85 or 92 will be generated, and since these is collected effectively, is breathed out indoors and showered over human being and other living bodies, a living body activation operation which was described above is demonstrated powerfully. According to the experiment, the weak energy generated by the bonnet appearance when a car ran is penetrated to some extent at least in the car through a windshield and side glasses, and performing the living body activation operation is admitted. A tourmaline adhesion side can also be established using the portion etc. which do not become the obstacle of the portion of others of not only the illustrated part but a body outer wall, for example, the outside surface of the ceiling 89 or the car body side 90, a windshield, side glasses, or rear glass. What is necessary is to provide \*\*\*\*\* downstream from those tourmaline adhesion sides, and just to draw weak energy indoors effectively. Not only a passenger car but a track, a bus, a minivehicle, etc. are equal, and a car can be used as mobile activity equipment. Furthermore, not only a car but movable matter objects, such as a train, a train, a monorail and a cable car and also an airplane, an airship, and a marine vessel, can be equally used as mobile activity equipment.

[0048]Next, drawing 11 is a partial elevational view showing one example of the environmental activity equipment which releases living body activation weak energy to the environment by the wind which is installed in traffic environment, such as the 3rd mode of the living body activation equipment of this invention, i.e., the road through which a movable matter object passes, and a railroad, and a movable matter object causes. Although a car, a train, a monorail, a cable car, etc. are included widely and it aims at traffic routes, such as a road, a railroad, a monorail orbit, and a cable car orbit, as traffic environment as a movable matter object, outdoor environment

can be used as environmental activity equipment not only a traffic route but widely. In the example shown in drawing 11, the tourmaline adhesion side 102 is established in some or all of the field of the panel 101 that was set up at least along with one side of the side of the road 100. Tourmaline fine powder or a fine grain is directly applied with a paint, or a tourmaline sheet is stuck, and the tourmaline adhesion side 102 is constituted. The panel 101 is illustration, is large, and can use a set-up thing (a flat surface or a curved surface is not asked regardless of erection or an inclination) as environmental activity equipment. [ of a fence, gauze, a frame, and a concrete wall ] It can change into a tall set-up thing, and the tourmaline adhesion side 104 can also be established in the field of a low structure like the guardrail 103 like a graphic display. If such environmental activity equipment 101 and 103 especially is formed in one side or both sides, such as straight parts which continue for a long time, such as a highway, By the wind which the movable matter object it runs causes, living body activation energy is always released to the environment, Since it comes to make this act on human being, while being able to achieve greatest effect which prevents the driver of the vehicles passing through that, etc. from falling into dangerous conditions, such as a dozing off while driving by which it will come from monotony if it is usual, and contributes to a traffic paint, Healthy and comfortable movement can be guaranteed by supplying the air with many anions which improved also to a fellow passenger.

[0049]Drawing 12 is a sectional view showing the tunnel 105 as other examples of the same environmental activity equipment as drawing 11. It is made to make it release living body activation energy to the tunnel milieu interne by the wind of the tunnel inner face 106 which establishes the tourmaline adhesion side 108 in part at least, and movable matter objects, such as the car 80, cause. A tourmaline adhesion side can be established in the zenith part 107 besides the tunnel side 106. When traffic is little environment, a means 109 to ventilate towards the tourmaline adhesion side 108 is formed, and it may be made to make activation energy always release. In the tunnel etc. where it continues straightly [ it is very long and ] also in a tunnel and which positive glow in particular does not reach, the capability of brains declines and it is experienced that a driver's attention becomes diffuse and causes a casualty. It is very important from the standpoint of a traffic paint to supply the weak energy which contains an anion in such environment, to improve air, and to activate human being's attentiveness. The tunnel can use the tunnel of not only a super highway but a railroad and other means of transportation as environmental activity equipment. Especially about a super highway, tourmaline UCHIWA which the automobile driver mentioned above is always carried, and it equips with the mobile activity equipment described above on the outside surface of the car body, and it is the most ideal in order for it to be a traffic paint to run using the road in which environmental activity equipment was installed.

[0050]

[Effect of the Invention]Above, like explanation, with the tools, the article, and equipment of various sorts to which tourmaline fine powder or a fine grain was made to enclose or adhere, the weak energy containing an anion is contacted to a living body as a matter of fact, or it gives via air blasting by this invention.

Therefore, since a living body's cell, a blood flow, and a nerve are activated and a vital function can be improved thru/or raised, For example, it can be improved and the eyesight of eyes can be clearly seen now, brains become clear \*\*\*\* and its HIRAMEKI is good, Since work of the head becomes \*\*\*\*, a student's results are improved and sleepiness is prevented, prevent danger, such as a dozing off while driving, and it contributes to a traffic paint, A motivation is full about work and are useful also for prevention and an improvement of a Japanese quince by promoting a cerebral blood flow, Muscles are strengthened, and become flexible, begin the heart, and effect remarkable in respect of healthy -- work of internal organs becomes active -- is achieved, Long-term survival of the cell into which animals and plants, such as a fresh egg, a vegetable seed, and rice, are alive can be aimed at, and many effects which were not expected until now -- the still more nearly same physiology activation effect as a human body also about the health of animals, such as a horse and a cow, can be attained -- are attained. The tools, the article, and equipment which is supporting tourmaline fine powder and a fine grain UCHIWA and a fan, Since an air blasting machine or glasses, pens and pencils, etc. have many comparatively cheap things which are in a person every day and established structures, such as a guardrail, a tunnel, etc. which have already been installed, etc. can be used, by using these easily, Maintenance improvement of the health is carried out immediate effect-wise economically and and constantly, living body capability is heightened, production capacity is heightened, and the practical effect of many, such as being useful for environmental improvement, is acquired.

---

[Translation done.]

\* NOTICES \*

JPO and INPIT are not responsible for any damages caused by the use of this translation.

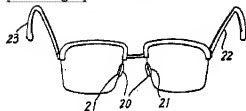
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DRAWINGS

---

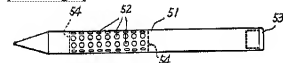
[Drawing 4]



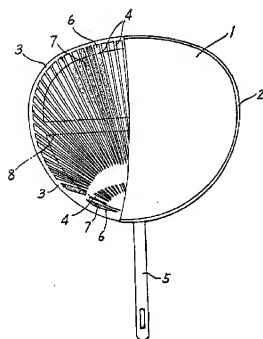
[Drawing 5]



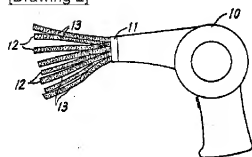
[Drawing 7]



[Drawing 1]

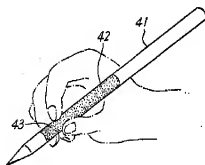


[Drawing 2]

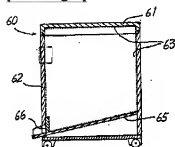


[Drawing 3]

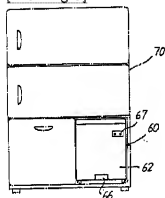
C A カ					0.1
0	9	B	ナ	7	0.2
0	5	K	ル	セ	0.3
0	3	N	ニ	オ	0.4
0	2	U	エ	カ	0.5
0	/	D	レ	ク	0.6
0	6	E	コ	ケ	0.7
0	7	H	キ	セ	0.8
0	8	I	シ	テ	0.9
0	4	J	ス	ダ	1.0
0	1	L	ズ	デ	1.1
0	0	M	ズ	ド	1.2
0	9	N	ズ	ド	1.3
0	8	O	ズ	ド	1.4
0	7	P	ズ	ド	1.5
0	6	Q	ズ	ド	1.6
0	5	R	ズ	ド	1.7
0	4	S	ズ	ド	1.8
0	3	T	ズ	ド	1.9
0	2	U	ズ	ド	2.0
0	1	V	ズ	ド	2.1
0	0	W	ズ	ド	2.2
0	9	X	ズ	ド	2.3
0	8	Y	ズ	ド	2.4
0	7	Z	ズ	ド	2.5
0	6	A	ズ	ド	2.6
0	5	B	ズ	ド	2.7
0	4	C	ズ	ド	2.8
0	3	D	ズ	ド	2.9
0	2	E	ズ	ド	3.0
0	1	F	ズ	ド	3.1
0	0	G	ズ	ド	3.2
0	9	H	ズ	ド	3.3
0	8	I	ズ	ド	3.4
0	7	J	ズ	ド	3.5
0	6	K	ズ	ド	3.6
0	5	L	ズ	ド	3.7
0	4	M	ズ	ド	3.8
0	3	N	ズ	ド	3.9
0	2	O	ズ	ド	4.0
0	1	P	ズ	ド	4.1
0	0	Q	ズ	ド	4.2
0	9	R	ズ	ド	4.3
0	8	S	ズ	ド	4.4
0	7	T	ズ	ド	4.5
0	6	U	ズ	ド	4.6
0	5	V	ズ	ド	4.7
0	4	W	ズ	ド	4.8
0	3	X	ズ	ド	4.9
0	2	Y	ズ	ド	5.0
0	1	Z	ズ	ド	5.1
0	0	A	ズ	ド	5.2
0	9	B	ズ	ド	5.3
0	8	C	ズ	ド	5.4
0	7	D	ズ	ド	5.5
0	6	E	ズ	ド	5.6
0	5	F	ズ	ド	5.7
0	4	G	ズ	ド	5.8
0	3	H	ズ	ド	5.9
0	2	I	ズ	ド	6.0
0	1	J	ズ	ド	6.1
0	0	K	ズ	ド	6.2
0	9	L	ズ	ド	6.3
0	8	M	ズ	ド	6.4
0	7	N	ズ	ド	6.5
0	6	O	ズ	ド	6.6
0	5	P	ズ	ド	6.7
0	4	Q	ズ	ド	6.8
0	3	R	ズ	ド	6.9
0	2	S	ズ	ド	7.0
0	1	T	ズ	ド	7.1
0	0	U	ズ	ド	7.2
0	9	V	ズ	ド	7.3
0	8	W	ズ	ド	7.4
0	7	X	ズ	ド	7.5
0	6	Y	ズ	ド	7.6
0	5	Z	ズ	ド	7.7
0	4	A	ズ	ド	7.8
0	3	B	ズ	ド	7.9
0	2	C	ズ	ド	8.0
0	1	D	ズ	ド	8.1
0	0	E	ズ	ド	8.2
0	9	F	ズ	ド	8.3
0	8	G	ズ	ド	8.4
0	7	H	ズ	ド	8.5
0	6	I	ズ	ド	8.6
0	5	J	ズ	ド	8.7
0	4	K	ズ	ド	8.8
0	3	L	ズ	ド	8.9
0	2	M	ズ	ド	9.0
0	1	N	ズ	ド	9.1
0	0	O	ズ	ド	9.2
0	9	P	ズ	ド	9.3
0	8	Q	ズ	ド	9.4
0	7	R	ズ	ド	9.5
0	6	S	ズ	ド	9.6
0	5	T	ズ	ド	9.7
0	4	U	ズ	ド	9.8
0	3	V	ズ	ド	9.9
0	2	W	ズ	ド	10.0
0	1	X	ズ	ド	10.1
0	0	Y	ズ	ド	10.2
0	9	Z	ズ	ド	10.3
0	8	A	ズ	ド	10.4
0	7	B	ズ	ド	10.5
0	6	C	ズ	ド	10.6
0	5	D	ズ	ド	10.7
0	4	E	ズ	ド	10.8
0	3	F	ズ	ド	10.9
0	2	G	ズ	ド	11.0
0	1	H	ズ	ド	11.1
0	0	I	ズ	ド	11.2
0	9	J	ズ	ド	11.3
0	8	K	ズ	ド	11.4
0	7	L	ズ	ド	11.5
0	6	M	ズ	ド	11.6
0	5	N	ズ	ド	11.7
0	4	O	ズ	ド	11.8
0	3	P	ズ	ド	11.9
0	2	Q	ズ	ド	12.0
0	1	R	ズ	ド	12.1
0	0	S	ズ	ド	12.2
0	9	T	ズ	ド	12.3
0	8	U	ズ	ド	12.4
0	7	V	ズ	ド	12.5
0	6	W	ズ	ド	12.6
0	5	X	ズ	ド	12.7
0	4	Y	ズ	ド	12.8
0	3	Z	ズ	ド	12.9
0	2	A	ズ	ド	13.0
0	1	B	ズ	ド	13.1
0	0	C	ズ	ド	13.2
0	9	D	ズ	ド	13.3
0	8	E	ズ	ド	13.4
0	7	F	ズ	ド	13.5
0	6	G	ズ	ド	13.6
0	5	H	ズ	ド	13.7
0	4	I	ズ	ド	13.8
0	3	J	ズ	ド	13.9
0	2	K	ズ	ド	14.0
0	1	L	ズ	ド	14.1
0	0	M	ズ	ド	14.2
0	9	N	ズ	ド	14.3
0	8	O	ズ	ド	14.4
0	7	P	ズ	ド	14.5
0	6	Q	ズ	ド	14.6
0	5	R	ズ	ド	14.7
0	4	S	ズ	ド	14.8
0	3	T	ズ	ド	14.9
0	2	U	ズ	ド	15.0
0	1	V	ズ	ド	15.1
0	0	W	ズ	ド	15.2
0	9	X	ズ	ド	15.3
0	8	Y	ズ	ド	15.4
0	7	Z	ズ	ド	15.5
0	6	A	ズ	ド	15.6
0	5	B	ズ	ド	15.7
0	4	C	ズ	ド	15.8
0	3	D	ズ	ド	15.9
0	2	E	ズ	ド	16.0
0	1	F	ズ	ド	16.1
0	0	G	ズ	ド	16.2
0	9	H	ズ	ド	16.3
0	8	I	ズ	ド	16.4
0	7	J	ズ	ド	16.5
0	6	K	ズ	ド	16.6
0	5	L	ズ	ド	16.7
0	4	M	ズ	ド	16.8
0	3	N	ズ	ド	16.9
0	2	O	ズ	ド	17.0
0	1	P	ズ	ド	17.1
0	0	Q	ズ	ド	17.2
0	9	R	ズ	ド	17.3
0	8	S	ズ	ド	17.4
0	7	T	ズ	ド	17.5
0	6	U	ズ	ド	17.6
0	5	V	ズ	ド	17.7
0	4	W	ズ	ド	17.8
0	3	X	ズ	ド	17.9
0	2	Y	ズ	ド	18.0
0	1	Z	ズ	ド	18.1
0	0	A	ズ	ド	18.2
0	9	B	ズ	ド	18.3
0	8	C	ズ	ド	18.4
0	7	D	ズ	ド	18.5
0	6	E	ズ	ド	18.6
0	5	F	ズ	ド	18.7
0	4	G	ズ	ド	18.8
0	3	H	ズ	ド	18.9
0	2	I	ズ	ド	19.0
0	1	J	ズ	ド	19.1
0	0	K	ズ	ド	19.2
0	9	L	ズ	ド	19.3
0	8	M	ズ	ド	19.4
0	7	N	ズ	ド	19.5
0	6	O	ズ	ド	19.6
0	5	P	ズ	ド	19.7
0	4	Q	ズ	ド	19.8
0	3	R	ズ	ド	19.9
0	2	S	ズ	ド	20.0
0	1	T	ズ	ド	20.1
0	0	U	ズ	ド	20.2
0	9	V	ズ	ド	20.3
0	8	W	ズ	ド	20.4
0	7	X	ズ	ド	20.5
0	6	Y	ズ	ド	20.6
0	5	Z	ズ	ド	20.7
0	4	A	ズ	ド	20.8
0	3	B	ズ	ド	20.9
0	2	C	ズ	ド	21.0
0	1	D	ズ	ド	21.1
0	0	E	ズ	ド	21.2
0	9	F	ズ	ド	21.3
0	8	G	ズ	ド	21.4
0	7	H	ズ	ド	21.5
0	6	I	ズ	ド	21.6
0	5	J	ズ	ド	21.7
0	4	K	ズ	ド	21.8
0	3	L	ズ	ド	21.9
0	2	M	ズ	ド	22.0
0	1	N	ズ	ド	22.1
0	0	O	ズ	ド	22.2
0	9	P	ズ	ド	22.3
0	8	Q	ズ	ド	22.4
0	7	R	ズ	ド	22.5
0	6	S	ズ	ド	22.6
0	5	T	ズ	ド	22.7
0	4	U	ズ	ド	22.8
0	3	V	ズ	ド	22.9
0	2	W	ズ	ド	23.0
0	1	X	ズ	ド	23.1
0	0	Y	ズ	ド	23.2
0	9	Z	ズ	ド	23.3
0	8	A	ズ	ド	23.4
0	7	B	ズ	ド	23.5
0	6	C	ズ	ド	23.6
0	5	D	ズ	ド	23.7
0	4	E	ズ	ド	23.8
0	3	F	ズ	ド	23.9
0	2	G	ズ	ド	24.0
0	1	H	ズ	ド	24.1
0	0	I	ズ	ド	24.2
0	9	J	ズ	ド	24.3
0	8	K	ズ	ド	24.4
0	7	L	ズ	ド	24.5
0	6	M	ズ	ド	24.6
0	5	N	ズ	ド	24.7
0	4	O	ズ	ド	24.8
0	3	P	ズ	ド	24.9
0	2	Q	ズ	ド	25.0
0	1	R	ズ	ド	25.1
0	0	S	ズ	ド	25.2
0	9	T	ズ	ド	25.3
0	8	U	ズ	ド	25.4
0	7	V	ズ	ド	25.5
0	6	W	ズ	ド	25.6
0	5	X	ズ	ド	25.7
0	4	Y	ズ	ド	25.8
0	3	Z	ズ	ド	25.9
0	2	A	ズ	ド	26.0
0	1	B	ズ	ド	26.1
0	0	C	ズ	ド	26.2
0	9	D	ズ	ド	26.3
0	8	E	ズ	ド	26.4
0	7	F	ズ	ド	26.5
0	6	G	ズ	ド	26.6
0	5	H	ズ	ド	26.7
0	4	I	ズ	ド	26.8
0	3	J	ズ	ド	26.9
0	2	K	ズ	ド	27.0
0	1	L	ズ	ド	27.1
0	0	M	ズ	ド	27.2
0	9	N	ズ	ド	27.3
0	8	O</			



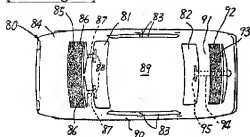
[Drawing 8]



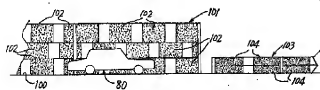
[Drawing 9]



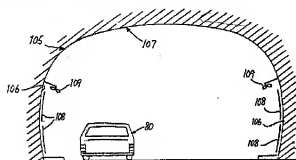
[Drawing 10]



[Drawing 11]



[Drawing 12]



[Translation done.]